



**CHIANG MAI UNIVERSITY**

FACULTY OF AGRICULTURE &  
GRADUATE SCHOOL

**UNIVERSITÄT HOHENHEIM**

FAKULTÄT AGRARWISSENSCHAFTEN



# Sustainable Agriculture and Integrated Watershed Management (SAIWAM) Master of Science

Curriculum



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This curriculum provides applicants and students as well as teaching and administrative staff with information about the M.Sc. programme „Sustainable Agriculture and Integrated Watershed Management“(SAIWAM). It includes general information on the programme, the application procedure, and the structure of the course.

The information presented reflects the current situation. Titles and contents of compulsory and optional modules are sometimes subject to change. Due to administrative reasons such changes can only be considered in printed materials with delay. For this reason all information is provided without liability.

For further information, please refer to the coordinator of the programme, Prof. Dr. J. Müller, Universität Hohenheim (SFB 564) ([joachim.mueller@uni-hohenheim.de](mailto:joachim.mueller@uni-hohenheim.de)). For up-to-date module descriptions please refer to the web-pages at [www.uni-hohenheim.de/modulkatalog](http://www.uni-hohenheim.de/modulkatalog). **Time schedules and lecture halls of all courses offered at the Universität Hohenheim are displayed in the Course Catalogue of the Universität Hohenheim**, available at the beginning of each semester online on the university’s homepage: [www.uni-hohenheim.de](http://www.uni-hohenheim.de).

## Table of Contents

Why study SAIWAM-Master?	4
Chiang Mai University (CMU)	4
The Universität Hohenheim (UHOH)	5
Career Perspectives	5
Programme Design	5
Modules	6
Course Contents	9
Individual Timetable	9
Credit Point System and Grading Scale	10
Credit Transfer	10
Study and Examination Plan	10
Mentoring	10
Examinations	10
Master Thesis	11
Language	11
Quality Assurance	11
Academic Calendar	11
Teaching Staff	12
Joint-Degree	12
Students Assistance	12
Admission Requirements	13
Application Deadline	13
Fees and Expenses	13
Cost of Living at UHOH	13
Housing at UHOH	14
Visa Application	14
Programme Director at UHOH	15
Coordination Office at CMU	15
Coordinator at UHOH	15
Block Periods	16
Explanation of Module Code	18
Lecture Periods and Examination Periods at UHOH	20

## **The Master Programme „Sustainable Agriculture and Integrated Watershed Management“ (SAIWAM)**

### ***Why study SAIWAM-Master?***

Watersheds are of significant importance for the global ecosystems and are characterised by a high degree of ethnic, cultural and ecological diversity. They span from small mountain catchments to transboundary river basins. Interdependencies between upstream and downstream agriculture and resource management pose particular challenges for the development of sustainable land use practices. High population growth, climate and land use change, and extraction of natural resources by a variety of actors are increasing the pressure on fragile watershed areas. In order to stop the downward spiral of resource degradation, landscape instability, reduced biodiversity, rural poverty and food insecurity, an interdisciplinary analysis and new approaches to sustainable agriculture and integrated watershed management are needed that identify sustainable land use practices, strengthen local institutions and knowledge systems, and increase the resilience of watershed ecosystems and rural livelihoods.

The new master programme (starting summer semester 2009) jointly offered by Universität Hohenheim, Germany, and Chiang Mai University, Thailand seeks to lay the foundation for such integrated approaches in education and training. It addresses post-graduate students from Southeast and South Asia, Latin America and Africa, who want to deepen their knowledge of the complexity of:

- watershed agro-ecosystems
- sustainable agricultural practices and
- new pathways of integrated watershed management

Students from Europe, East Asia and North America with interdisciplinary and international interest are very welcome. Both universities have long-standing experience in research on sustainable agriculture and integrated watershed management and have developed an extensive network of partner universities and research organisations in the Southeast Asian region and beyond. Students will be enrolled as full degree students at both universities for the whole duration of the study programme.

### ***Chiang Mai University (CMU), Thailand***

Founded in 1964, Chiang Mai University (CMU) is among the leading Thai universities in teaching and research in the agricultural science field. The university has nine international Master Degree programmes and features excellent facilities for study and living. Its campus offers a unique multi-cultural environment for more than 30.000 students and its adjacent mountains and tropical watersheds provide outstanding opportunities for field studies, socio-economic surveys and excursions.

CMU has the national research mandate for the region of northern Thailand. Furthermore, the university has been assigned to become one of the leading universities in research and teaching on agriculture and natural resource management in mountainous regions of Southeast Asia. As one of the major academic centres of the Greater Mekong Subregion (GMS), CMU is in an excellent position to attract students from South and Southeast Asia and to become a regional education hub for sustainable agriculture and integrated watershed management.

CMU's Faculty of Agriculture has an extensive network of cooperation in teaching and research comprising national organizations and international partners, such as the World Agroforestry Center (ICRAF) and many leading universities in the USA, Europe and Asia.

***The University of  
Hohenheim (UHOH)***

Looking back at a history of nearly 250 years, Universität Hohenheim is one of Europe’s leading universities in the field of agricultural sciences and natural resource management. Its 13 Master programmes in agriculture fulfil top standards, and its graduates are highly competitive in the international job market. Hohenheim is a relatively small university with approx. 6000 students. The campus, with the castle park and botanical garden, is one of the most beautiful in Germany and has a pleasant, open working atmosphere. All university facilities are within walking distance. There are additional leisure facilities such as the own sports centre, and a large number of cultural events. With several long-term interdisciplinary research programmes, such as the Thai-Vietnamese-German Collaborative Research Centre “Sustainable Land Use and Rural Development in Mountainous Regions of Southeast Asia” funded by the German Research Foundation (DFG) and the Sino-German research cooperation “Living Landscapes China” funded by the German Ministry of Education and Research (BMBF), the university combines high-quality interdisciplinary research in the Greater Mekong Subregion (GMS) with excellent teaching and training in the field of sustainable agriculture and integrated watershed management.

***Career Perspectives***

With its interdisciplinary, team-oriented and intercultural approach, the study programme addresses a rapidly growing job market at the national and international level. Professionals with a profound expertise in key global issues, such as climate and land use change, resource conservation and high-value agricultural production, are in high demand. Jobs will be available in international research and development organizations working on sustainable agriculture, global environmental change, nature protection, and food security. National careers can be pursued, for instance, in land use planning, environmental impact assessment as well as teaching interdisciplinary approaches to land care and natural resource management.

***Programme Design***

The two-year Joint-Degree M.Sc. programme consists of four semesters, during which fifteen thematic modules and the Master Thesis have to be completed. The first two semesters, offering a broad interdisciplinary training, are to be completed at Chiang Mai University. The third semester, offered at the Universität Hohenheim, leads to a specialisation in one of three fields, namely

- agricultural economics and social sciences
- natural resource management and
- animal production systems

***Programme Design of the M.Sc. „Sustainable Agriculture and Integrated Watershed Management“ (SAIWAM-Master)***

<b>Sem.</b>	<b>Modules</b>
<b>1 and 2</b>	<b>6 Compulsory modules</b> <b>2 Semi-elective modules</b> (two to choose out of four) <b>2 Elective modules</b>
<b>3</b>	<b>Interdisciplinary Study Project</b> <b>Semi-elective modules</b> to choose according to the field of specialisation <b>and</b> <b>Elective module</b>
<b>4</b>	<b>Master thesis</b>

The master thesis will be jointly supervised by a German and Thai supervisor. It may be carried out at either university or at specific research sites in Southeast-Asia.

The full programme has an extent of 120 ECTS and is constructed by 4 semesters each with 30 ECTS. The language of instruction is English.

**Modules in the first and second semester of the Joint-Degree Master Program “Integrated Watershed Management” (taught at CMU)** (bold = compulsory modules, normal = semi-elective modules; at least two should be selected from the four modules offered.)

**First semester, summer term**

Preparation	Block 1	Block 2	Block 3	Block 4	Block 5
- Introduction to Thai Language and Culture, Excursions	3101-510 <b>Soil, Water and Forest Resources</b>	4901-460 <b>Development Policies and Economic Strategies</b>	3703-420 <b>Sustainable Production of High Value Crops</b>	4801-470 <b>Sustainable Livestock Production Systems</b>	3802-450 <b>Watershed Ecology and Agroecosystems</b>

**Second semester, winter term**

Block 6	Block 7	Block 8	Block 9	Block 10	
4403-510 Processing and Marketing of High Value Food Products	4403-500 Renewable Energy Sources for Mountainous Regions	3801-450 Integrated Watershed Modelling	4904-440 Economic Modelling and Policy Simulation	4901-450 <b>Ethnic, Cultural, and Social Aspects of Watershed Development</b>	- Semester Break and Preparation for Study in Hohenheim

Upon request of the students the examination board can allow to substitute up to two compulsory modules by modules from other international master programmes of Chiang Mai University. The elective modules can be chosen from all lists of semi-elective modules or from other international master programmes of Chiang Mai University or Universität Hohenheim.

<p>Non-blocked courses to be selected from the International Master Programmes of Chiang Mai University, e.g.:</p> <ol style="list-style-type: none"> <li>1. Agricultural Systems (offered by Faculty of Agriculture)</li> <li>2. Sustainable Development (offered by Faculty of Social Sciences)</li> <li>3. Environmental Management (offered by Faculty of Sciences)</li> <li>4. Veterinary Public Health (jointly offered by the Faculties of Veterinary Medicine, CMU and FU Berlin)</li> </ol>
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**Modules**

At CMU 6 credits based on the European Credit Transfer System (ECTS) are awarded for each module. This corresponds to a workload of 4 weekly contact hours per semester, totalling 56 contact hours per module, and in addition at least the same time for preparation at home, summing up to a total workload of about 140-180 hours for each module -, including the time for exam preparation. At UHOH until summer semester 2014 most modules are offered as blocked courses lasting three and a half weeks. Some are not blocked and thus last the full length of the semester. In summer semester 2015 the modules of the specialisation **Agricultural Economics and Social Sciences** are worth 6 credits and last the full length of the semester. The modules of the specialisation **Natural Resource Management** are offered as 7.5 credit blocked courses, Each including three weeks of instruction, one week of individual preparation, and an exam at the end of week four. Each module of

7.5 credits corresponds to a workload of 5 SWS (weekly contact hours per semester), which is 70 contact hours per module. In addition time for preparation at home is needed, summing up to a total workload of about 160 hours for one module of 6 credits and 200 hours for one module of 7.5 credits. Modules consist of different forms of teaching (e.g. seminar, lecture, practical, excursion).

More information about UHOH's modules can be found on the module description site ([www.uni-hohenheim.de/modulkatalog](http://www.uni-hohenheim.de/modulkatalog)). A schedule of all modules taught in English at the Faculty of Agricultural Sciences at UHOH, including the exact dates of the block periods, is available at the Dean's Office.

In summer semester 2014 the modules of the fields of specialisation at UHOH are:

***Specialisation: Agricultural Economics and Social Sciences***

<b>Compulsory modules</b>		<b>Block</b>	<b>Exam</b>	<b>Professor</b>
<b>3101-520</b>	<b>Interdisciplinary study project</b> "Scientific Methodologies for Integrated Research"	unblocked	written	Stahr
<b>Semi-elective modules (3 to choose)</b>		<b>Block</b>	<b>Exam</b>	
4202-440	Markets and Marketing of Organic Food	unblocked	written	Becker, T.
4202-450	Microeconomics	unblocked	written	Becker, T.
4303-470	Gender, Nutrition, and Right to Food	unblocked	written + ICA	Lemke
4901-430	Rural Development Policy and Institutions	block 7	written	Zeller
4201-410	Agricultural and Food Policy	block 8	written	Grethe
4902-430	Food and Nutrition Security	block 10	written	Brockmeier
<b>1 Elective module</b> (free choice from all lists of all specialisations or other modules from general offer at UHOH) e.g. the following modules:				
4903-500	Policy Processes in Agriculture and Natural Resource Management	block 9	written + ICA	Birner
4903-470	Qualitative Research Methods in Rural Development Studies	block 10	written	Birner

ICA = in-course assessment

***Specialisation: Natural Resource Management***

<b>Compulsory modules</b>		<b>Block</b>	<b>Exam</b>	<b>Professor</b>
<b>3101-520</b>	<b>Interdisciplinary study project</b> "Scientific Methodologies for Integrated Research"	unblocked	written	Stahr
<b>Semi-elective modules (3 to choose)</b>		<b>Block</b>	<b>Exam</b>	<b>Professor</b>
3603-420	Crop Protection in Organic Farming	unblocked	written + ICA	Zebitz
3101-540	Soils, Vegetation, and Landscapes of Southwest Germany	unblocked	oral	Rennert
3103-450	Spatial Data Analysis with GIS	block 7	written	Streck
3703-430	Crop – Environment Interactions	unblocked	oral	Wünsche

<b>Semi-elective modules (3 to choose)</b>		<b>Block</b>	<b>Exam</b>	<b>Professor</b>
3801-430	Integrated Agricultural Production Systems	block 7	written	Cadisch
4403-460	Postharvest Technology of Food and Biobased Products	block 8	written	Joachim Müller
3802-420	Biodiversity, Plant and Animal Genetic Resources	block 8	written	Sauerborn
3101-460	Mapping Course: Soils and Vegetation	overlapping B7 / B8	oral + ICA	Rennert
<b>1 Elective module</b> (free choice from all lists of all specialisations or other modules from general offer at UHOH) e.g. the following modules:				
4903-500	Policy Processes in Agriculture and Natural Resource Management	block 9	written + ICA	Birner
4602-450	Food Safety and Drinking Water Quality	block 10	oral + ICA	Hölzle

ICA = in-course assessment

***Specialisation: Animal Production Systems***

<b>Compulsory modules</b>		<b>Block</b>	<b>Exam</b>	<b>Professor</b>
<b>3101-520</b>	<b>Interdisciplinary study project</b> “Scientific Methodologies for Integrated Research”	unblocked	<b>written</b>	Stahr
<b>Semi-elective modules (3 to choose)</b>		<b>Block</b>	<b>Exam</b>	<b>Professor</b>
4303-480	Global Nutrition	unblocked	written	Lemke
3801-430	Integrated Agricultural Production Systems	block 7	written	Cadisch
3802-420	Biodiversity, Plant and Animal Genetic Resources	block 8	written	Sauerborn
4801-420	Promotion of Livestock in Tropical Environments	block 9	written+ ICA	Valle Zárate
4801-480	Organic Livestock Farming and Products	block 7	written	Valle Zárate
<b>1 Elective module</b> (free choice from all lists of all specialisations or other modules from general offer at UHOH) e.g. the following module:				
4903-470	Qualitative Research Methods in Rural Development Studies	block 10	written	Birner

In summer semester 2015 the modules of the fields of specialisation at UHOH are:

***Compulsory for all Specialisations:***

<b>Sem</b>	<b>Code</b>	<b>Name of Module</b>	<b>Duration</b>	<b>Credits</b>	<b>Professor</b>
3	3101-520	Interdisciplinary study project	by arrangement	7,5	Stahr



**Specialisation: Agricultural Economics and Social Sciences** (3 modules are obligatory and one module to choose)

Sem	Code	Name of Module	Duration	Credits	Professor
3	4303-470	[Gender, Nutrition, and Right to Food] (if not offered: → 3405-460)	1 semester	6	Lemke
3 (SS)	3405-460	Processing and Quality of Organic Food	1 semester	6	Zikeli
3	4201-410	Agricultural and Food Policy	1 semester	6	Grethe
3	4202-460	Markets and Marketing of Quality Food	1 semester	6	Becker, T

Suggestions for elective modules

Sem	Code	Name of Module	Duration	Credits	Professor
3 (SS)	3103-500	Energy and Water Regime at the Land Surface	1 semester	6	Streck
3 (SS)	3401-450	Conservation Agriculture	1 semester	6	Claupein
3	3603-420	Crop Protection in Organic Farming	1 semester	6	Zebitz

**Specialisation: Natural Resource Management** (choose 3 of the modules)

Sem	Code	Name of Module	Duration	Credits	Professor
3	3103-450	Spatial Data Analysis with GIS	SS Block 1	7,5	Streck
3	3801-430	Integrated Agricultural Production Systems	SS Block 2	7,5	Cadisch
3	3802-420	Biodiversity, Plant and Animal Genetic Resources	SS Block 2	7,5	Sauerborn
3	3101-460	[Mapping Course: Soils and Vegetation] → replaced by "Field Course Soils and Vegetation"	SS Block 3	7,5	Stahr
3	4403-460	Postharvest Technology of Food and Biobased Products	SS Block 4	7,5	Müller

With compulsory, semi-elective, and elective modules together at least 90 credits have to be reached in each specialisation.

#### **Course Contents**

For details about contents, lecturers and methods of instruction refer to the module description site ([www.uni-hohenheim.de/modulkatalog](http://www.uni-hohenheim.de/modulkatalog)). Times and lecture rooms of all courses offered at Universität Hohenheim can be found in the Course Catalogue of Universität Hohenheim.

#### **Individual Timetable**

The Course Catalogue of Universität Hohenheim contains information on times, lecturers and lecture rooms of all courses and is available at the beginning of each semester online at the university's homepage: [www.uni-hohenheim.de](http://www.uni-hohenheim.de). It is linked to the Module Descriptions. A tool to compose an individual timetable is available on the Intranet. Mind: especially non-blocked modules often consist of more than one course.

#### **Credit Point System**

The M.Sc. programme has a total requirement of 120 credits. The examination result is expressed in grade points and grades. The highest score is 4.0 [grade A]. A score of 3,0 [grade B] is required for passing the compulsory modules, a

score of 1.0 [grade D] for passing all other modules. Credits are multiplied with the grade points achieved to derive the number of credit points obtained. In order to calculate the grade point average, the total number of credit points obtained in all modules is divided by the total number of credits collected.

<b>Grading Scale</b>	<i>grades</i>		<i>grade-points</i>
	<i>outstanding performance</i>	<i>excellent</i>	A
<i>very good performance</i>	<i>very good</i>	B+	3,5
<i>performance well above average</i>	<i>good</i>	B	3,0
<i>performance above average</i>	<i>fairly good</i>	C+	2,5
<i>performance meets average expectations</i>	<i>fair</i>	C	2,0
<i>performance under average expectations</i>	<i>poor</i>	D+	1,5
<i>performance just meets minimum requirements</i>	<i>very poor</i>	D	1,0
<i>performance fails to meet minimum requirements</i>	<i>failed</i>	F	0

**Grade point average**

The grade point average of all taken courses and the Master thesis must be at least B (3,0) to be awarded with the Joint Degree Master.

**Credit Transfer**

The programme uses the European Credit Transfer System (ECTS). For all students that move from one university to the partner university the sending university has to provide an official transcript of records (signed and sealed) in English language: The transcripts of students will be sent directly from university to university.

**Study and Examination Plan**

Students have to seek advice of one of the mentors of the programme on which elective modules are suitable for their individual profile. Until the end of the first semester of study the candidate must have the study and examination plan approved, in which all chosen modules and the specialisation are mentioned. The study and examination plan has to be signed by a mentor (see below) before it is handed in. Students submit their verified study plans to the CMU registration office. Students register online for all modules at CMU's registration office. Registrations for modules at UHOH are forwarded to the examination office at UHOH. Exchanges of modules are the responsibility of the students. A module cannot be dropped after registration for examination.

**Mentoring**

A personal mentor from the teaching staff is assigned to advise on appropriate profiles and support smooth and goal-oriented progress. The study and examination plan has to be signed by this mentor before it is handed in to the CMU examination office.

Mentor at UHOH is: Prof. Dr. J. Müller, [joachim.mueller@uni-hohenheim.de](mailto:joachim.mueller@uni-hohenheim.de)

**Examinations**

CMU and UHOH will designate for each obligatory module one module coordinator and a counterpart at the partner university. Both are responsible for running the module including examinations and assessments.

Examinations have to follow the examination regulations. If a student fails in an exam or withdraws from an exam and has to move to the partner university, both institutions are obliged to set up re-examinations.

Each module is examined upon completion. The examinations of the blocked modules are held at the end of the respective block period. Those for the unblocked modules are held in the two examination periods that follow the lectures (at UHOH week 6-8 and 12-14 in winter semester, week 29-31 and 40-41 in summer semester).

Students have to register for the examinations at CMU by contacting the coordinator of the respective module. At UHOH for each semester at the

examination office during the time period announced (within this time period: blocked modules one week before exam at the latest!). Withdrawal on the first trial of each module examination is possible up to 7 days before the examination date. The examination will be postponed to the next possible examination period.

The claim for examination expires if:

- a minimum of six examinations has not been passed by the end of the second semester at the latest
- an examination of the compulsory modules has not been passed by the end of the fourth semester at the latest
- an examination of a semi-elective or elective modules has not been passed by the end of the sixth semester at the latest

The claim for examinations does not expire, if the candidate cannot be held responsible for the failure to comply with the deadline. The students themselves are responsible for complying with these examination deadlines as well as all other regulations given in the examination regulations. The examination regulations and a leaflet on registration are distributed by UHOH's (<https://www.uni-hohenheim.de/pruefung.html>) and CMU's examination office or can be found on the URL <http://www.uni-hohenheim.de/saiwam>.

### *Master Thesis*

The Master Thesis shall show that the candidate is able to work independently on a clearly defined and specific problem in the field of „Sustainable Agriculture and Integrated Watershed Management“ within a fixed period of time by applying scientific methods. The exam consists of a written (paper) and an oral (defence) part. If the paper is awarded at least the grade very poor, the candidate has to defend the essential arguments, results and methods of the thesis in a colloquium of about 30 minutes. The written part of the Master Thesis has to be completed within a period of six months. It is usually written during the fourth semester. Thesis work includes a literature review, new and original data derived from field and laboratory work, a period of writing-up and, finally, a presentation.

### *Language*

All modules are taught in English. However, foreign students are recommended to acquire German language knowledge for everyday life in Germany. Students whose mother tongue is not English are advised to attend accompanying courses in scientific English.

Students with German or Thai knowledge sufficient to follow a master course may also select modules taught in German or Thai as elective modules.

### *Quality Assurance*

At UHOH and CMU the joint M.Sc. programme has to be evaluated and accredited according to the national legislations and rules.

At UHOH the quality of courses and modules is evaluated in a two year rotation by the students of all study programmes. The evaluation sheets are distributed and evaluated by the Faculty of Agricultural Sciences and the results are sent back to the lecturers in an **anonymous** format. The lecturers are asked to discuss the results with the students at the end of their courses.

### *Academic calendar at CMU*

First semester June – October, second semester November – March, summer session March – May.

### *Academic calendar at UHOH*

In the summer semester courses begin usually in week 14 and end in week 27. The lecture period is followed by an examination period of three weeks. Blocked modules usually begin in week 14 as well. In the winter semester courses usually begin in week 42 and end in week 5 of the new year.

### *Teaching Staff*

Both universities have long-standing experience in research on sustainable agriculture and integrated watershed management and have developed an extensive network of partner universities and research organizations in the

Southeast Asian region and beyond. The modules offered at Chiang Mai University are jointly organized and taught by Thai and German professors, who have broad experience in international research and teaching. Students also benefit from the worldwide academic network of the two universities. Guest speakers from various Asian partner universities, international research centres and development organizations enrich the curriculum with special fields of expertise.

### ***Joint-Degree***

Upon successful completion of the M.Sc. programme students will be awarded a joint M.Sc. in “Sustainable Agriculture and Integrated Watershed Management” by UHOH and CMU. The Master certificate and the final transcript of records will be issued by the institution, where the student is taking the last exam or is defending the thesis. UHOH and CMU guarantee that only a completed certificate will be signed by the second rector / president. The degree entitles the student to continue with a Ph.D./doctoral programme at UHOH if the total grade is above average and is recommended to other universities.

### ***Students Assistance ...***

Students are generally responsible for their own study progress and sufficient personal funding. Student mobility will be organised by the CMU coordinator. Students are expected to pay their mobility costs in the case, where sponsors cannot be found.

### ***... at Chiang Mai***

A wide range of supports are provided by Chiang Mai University to help the students to settle down and live pleasantly.

- A two week introductory programme is offered by SAIWAM coordination office, with Thai language and culture and excursions to familiarize students with university facilities and Chiang Mai city. Students may extend the language course at CMU language institute afterwards.
- A first-aid clinic for students is located in the guesthouse (opposite to the CMU Officials Club) and is open weekdays, excluding official holidays, from 8:30 a.m. to 4:30 p.m. The Student Health Service at the Faculty of Medicine also provides medical care and is open weekdays from 10:00-12:00 a.m. and 1:30-3:30 p.m.
- In addition to counselling and advice from their course advisor on issues related to their academic studies, students with problems of a more personal nature can consult counselors at the Counselling Centre, which is run by lecturers from the Psychology Department. The Centre is located in the Faculty of Humanities and is open on weekdays from 09.00 – 15.00.

International Banking services and Post office are located in convenient locations around the campus. Shuttle bus service on the campus is available for students.

### ***... at Hohenheim***

In order to facilitate the administrative, academic and social integration of foreign M.Sc. students in Germany, the Universität Hohenheim provides support in the following areas:

- Intensive German language courses are offered by the university’s language centre.
- Every student is assigned a personal mentor from the teaching staff to ensure that each individual’s study programme is suitable and that s/he progresses smoothly.
- A two-week introductory programme is offered with excursions, seminars and presentations to familiarise students with university facilities, the city of Stuttgart and the surroundings.
- Contact meetings with participants of former courses and German students are organised from the start to make new students feel at home and to help them settle in quickly at Hohenheim.

- The University assists with reserving accommodation for students in the halls of residence where necessary and as far as available. Further assistance is provided at UHOH to students seeking accommodation on the private market.

**Admission Requirements** Admission to the M.Sc. programme “Sustainable Agriculture and Integrated Watershed Management” is restricted to 20 (later 40) students per year. Students require an above-average Bachelor of Science or an equivalent degree in Agriculture or a related discipline following at least three years of university studies or German FH studies.

Applicants whose first language (mother tongue) is not English have to provide proof of proficiency in English (i.e. in TOEFL or IELTS Academic Test). TOEFL Scores are:

- minimum of 550 points in the paper-based test or
- 213 points in the computer-based test or
- 79 points in the internet-based test

Applications will be processed and ranked at CMU. Applications considered for an admission will be send to UHOH, where the Office of International Affairs will verify the credential evaluation and will recommend to the admission committee whether an applicant is formally entitled to be admitted to the programme or not. The decision on admission will be done by a joint admission committee. Applicants admitted to the programme will receive the admission letter by CMU.

**Application Deadline** Students have to send their applications in English language to the co-ordination office at [Chiang Mai University, Thailand](#) (CMU). The application deadline is 15<sup>th</sup> September at each year (postal stamp or email).

**Fees and Expenses** The tuition fee is 300,000 THB for 4 semesters. It is divided, 75,000 THB have to be paid per semester. This fee includes registration fee, administrative fee and semester contribution fee in both universities. Students pay the fee once at the university where they are studying; it is distributed to both universities. A fee for an additional semester has to be paid, if students spend more than 4 semesters to complete their study.

The fees may be refunded partially if a student leaves the programme during the semester. The students are exempted from paying fees for additional semesters, if they passed successfully all exams including the Master thesis and are only waiting for the publication/presentation/patenting of the thesis according to the examination regulation.

Students are expected to cover their own living expenses, including housing, food, health insurance, study materials etc. When arriving at UHOH students have to purchase a health insurance from a private company for one or two semesters depending on whether they do the thesis at UHOH.

**Cost of Living** Students have to come up for their own living expenses.

The cost of living for students in Thailand is estimated at around 10,000 baht per month. The transportation on campus is provided by the university shuttle buses, however students have to take into account own transportation from/to university. The cost of rental for motorbikes or other means of transport has to be considered, including food and other personal expenses. Although food price in campus area is relatively low, the price can be much different at the restaurant or outside campus area.

The standard of living in Germany is comparatively high and so is the cost of living. On estimate, a single student needs approximately Euro 600 per month. Apart from accommodation fees and food expenses, additional costs have to be taken into account, i.e. excursion fees, health insurance (which is a pre-

requisite for registering with a German university), personal liability insurance, study material, etc.

### ***Housing***

At Chiang Mai, off campus rented accommodation possibilities include studios, one- or two-bedroom condominium units (condos/flats/apartments), shared furnished and unfurnished houses, and privately run student hostels (dormitories). Monthly rental costs vary on location, facilities and services. The price for one studio room can be from 3,000 baht – 6,000 baht on average per month excluded electricity, water and internet bills. Generally most of the rental rooms are not equipped with kitchen facilities.

A short list of accommodation can be provided by CMU Coordination office, however students are recommended to contact the owner by themselves to suit their own need.

At UHOH each student is responsible for finding accommodation for him-/herself. The Universität Hohenheim cannot guarantee accommodation in dormitories due to lack of capacity. However, the Universität Hohenheim offers assistance with seeking for accommodation. This may help international students to fulfil visa requirements. Rent for a single-room apartment amounts to about Euro 250 to 400 per month, depending on the size of the flat and distance from the University or the City of Stuttgart.

### ***Visa Application***

Once the application to study at CMU has been approved, the students will need to obtain a Non-Immigrant ED visa to enter Thailand. This visa can be extended once your studies have commenced. DO NOT enter Thailand on a tourist or transit visa as these are not issued for study purposes and cannot be extended to cover the entire duration of your period of study.

Please note: Foreign nationals studying on a student visa are not eligible for a work permit and therefore cannot legally work while studying in Thailand.

The documents required for a visa to Thailand are:

- A copy of the official letter of acceptance from CMU
- Two recent 4 x 6 cm passport size photos (less than 6 months old)
- A copy of your passport – information pages
- A medical certificate (less than 6 months old)
- Visa fee

For the semester(s) at UHOH students that have not the nationality of a member state of the European Union need to hold a valid study visa. The co-ordination office at CMU will support students in obtaining the visa in due time.

Applicants are strongly advised to contact the cultural department of the German Embassy or Consulate responsible for the city of residence as soon as the letter of admittance has been received. The letter of admittance will certify that knowledge of the German language is not required for participating in the Hohenheim Master programme.

The basic requirements for a student visa for Germany are the following: valid passport, photographs, proof of high school diploma / previous university study, letter of admittance from the Universität Hohenheim and proof of a financing source for the duration of the study. As a prerequisite for obtaining a visa at least EUR 500 per month are required. Therefore, for the second year, applicants will have to prove a minimum availability of EUR 6,000 of own resources, unless some other financing source is at their disposal. In the latter case, one (or more) person(s) or sponsor(s) have to take official responsibility for all costs pertaining to the entire period of study.

### ***Programme director at UHOH***

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## Block Periods 2013/2014

	<b>Block</b>	<b>Period</b>
<b>Winter Semester</b>	1	14.10. – 06.11.2013
	2	07.11. – 29.11.2013
	3	02.12. – 20.12.2013 + 07.01. – 08.01.2014
	4	09.01. – 31.01.2014
	5	03.02. – 25.02.2014
<b>Summer Semester</b>	6	01.04. – 25.04.2014
	7	28.04. – 21.05.2014
	8	22.05. – 06.06.2014 + 16.06. – 24.06.2014
	9	25.06. – 18.07.2014
	10	21.07. – 12.08.2014

**Important Advice for the Personal Time-Table:** Blocked modules will usually take place Monday to Friday from 2 p.m. to 6 p.m. Non-blocked modules will usually be taught in the morning. This shall enable students to combine blocked and unblocked modules. (Because of the limited number of lecture rooms, this aim can unfortunately not always be kept.) While working out your personal time-table, please be aware of the following facts: the morning is assigned for the personal preparation of the blocked modules too and the block periods B4, B5 and B9, B10 will have a relevant overlapping with the first examination period of the unblocked modules!

**Please check module descriptions for how to register for participation in the module!**



# Blocked Modules and Periods 2014/2015

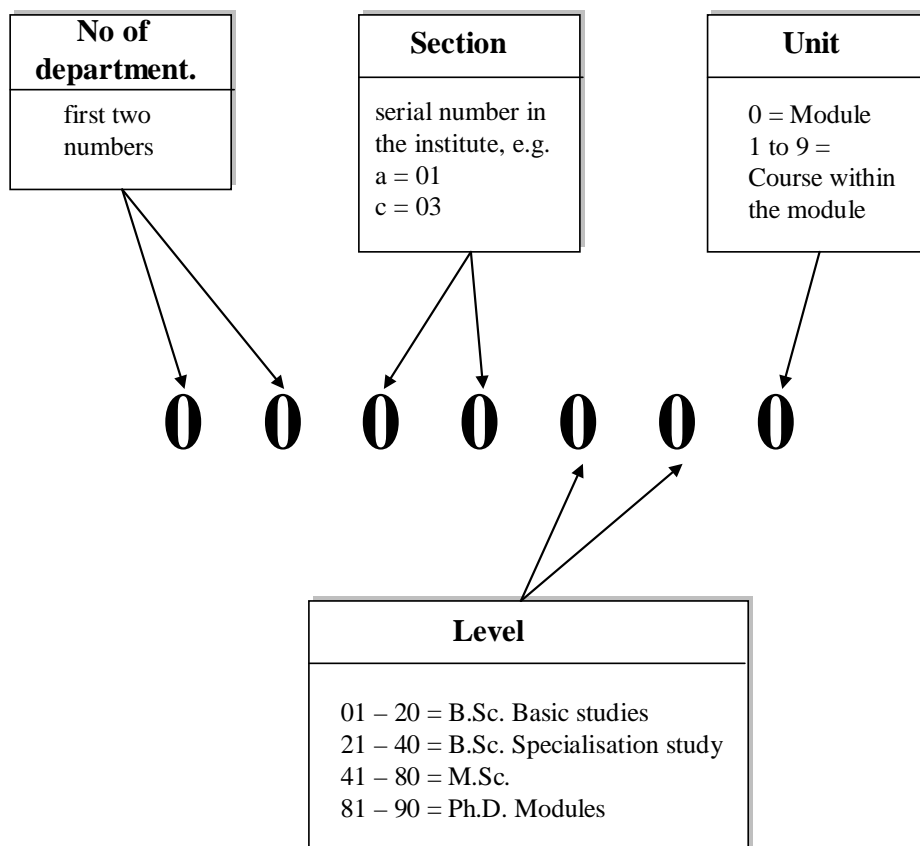
From WS 14/15 on all blocked modules offered by the Faculties of Natural Sciences and Agricultural Sciences will have a duration of 4 weeks, an estimated workload of around 200 hours, and will result in 7,5 ECTS credits.

## Blocked Modules of the Faculty of Agriculture (*draft!*)

<b>Winter Semester 2014/15</b>					
(1. examination period of unblocked modules: 09.02.-27.02.15)					
	<b>Block 1</b> (13.10.-7.11.)	<b>Block 2</b> (10.11.-5.12.)	<b>Block 3</b> (8.12.-16.1.)	<b>Block 4</b> (19.1.-13.2.)	<b>Holiday block</b> (March)
Ecol.	● <b>3201-560</b> (Schurr) Landscape Ecology	● <b>3201-570</b> (Schurr) Community and Evolutionary Ecology	● <b>3201-800</b> (Schurr) Conservation Biology	● <b>3202-440</b> (Fangmeier) Plant Ecology	● <b>3003-410</b> (Schöne) Food Safety and Quality Chains
Econ.	○ <b>4904-460</b> (Berger) Farm System Modelling		○ <b>4901-420</b> (Zeller) Poverty and Development Strategies		Prüfung
	○ <b>4904-430</b> (Berger) Land Use Economics		○ <b>4901-470</b> (Zeller) Quant. Meth. i. Econom.		Prüfung
Animal Sc.					○ <b>4602-500</b> (Beyer) Biologische Sicherheit und Gentechnikrecht
					● <b>4502-410</b> (Mosenthin) Futterwertbeurteilung, FM-mikrobiologie und ..
<b>Summer Semester 2015</b>					
(1. examination period of unblocked modules: 27.07.-14.08.15)					
	<b>Block 1</b> (13.4.-8.5.)	<b>Block 2</b> (11.5.-12.6.)	<b>Block 3</b> (15.6.-10.7.)	<b>Block 4</b> (13.07.-7.8.)	<b>by arrangement</b>
Crop S.	● <b>3803-470</b> (Asch) Interdisciplinary Practical Science Training ( <b>AgriTropics only!</b> )	○ <b>3801-430</b> (Cadisch) Integrated Agricultural Production Systems	○ <b>3803-450</b> (Asch) Crop Production Affecting the Hydrological Cycle	○ <b>3803-430</b> (Asch) Ecophysiology of Crops in the T+S	○ <b>3603-500</b> (Zebitz) Exercises in Biological Pest Control
Engin.		○ <b>4403-580</b> (Müller, J.) Water and Soil Management in Agric. Production	○ <b>4403-470</b> (Müller, J.) Renewable Energy f. Rural Areas	○ <b>4403-550</b> (Müller, J.) Postharvest Technology of Food and Bio-Based Prod.	
Animal T + S		○ <b>4801-430</b> (Valle Zárate) Livestock Breeding Programmes ...	○ <b>4802-450</b> (Dickhöfer) Quant. Meth. in Anim. Nutrition +Veget. Scienc.	○ <b>4801-420</b> (Valle Zárate) Promotion of Livestock in Trop. Environm.	
Soc.			○ <b>4602-450</b> (Hölzle) Food Safety a. Drinking Water Quality related to Zoonoses in the T+S	○ <b>4303-480</b> (Lemke) Global Nutrition	
Ecology		● <b>3802-420</b> (Sauerborn) Biodiversity, Plant and Animal Gen. Resources			
	● <b>3201-620</b> (Schmieder) Vegetation and Soils of Central Europe	● <b>3201-590</b> (Schurr) Combining Ecological Modells and Data	● <b>3101-570</b> (Hermann) Field Course Soils and Vegetation	● <b>3201-600</b> (Schurr) Intensive Course Landscape Ecology	
Soil Scienc.	● <b>3103-450</b> (Streck) Spatial Data Analysis with GIS	● <b>3102-440</b> (Kandeler) Environmental Pollution and Soil Organisms	● <b>3101-580</b> (Rennert) Bodenschutz, Bodenbewertung, -sanierung	● <b>3103-460</b> (Streck) Environmental Science Project	● <b>3102-420</b> (Kandeler) Bodenwissenschaftliches Experiment
	● <b>3102-450</b> (Kandeler) Molecular Soil Ecology	● <b>3101-560</b> (Rennert) Soils of the World		● <b>3101-430</b> (Rennert) Interdiscipl. Adv. Soil Sc. Project (Engl.+ Ger.)	
Animal Sciences	● <b>4701-490</b> (Stefanski) Verhaltensbiologie	● <b>4702-510</b> (Bennewitz) Zuchtplanung und Zuchtpraxis i. d. ...	● <b>4701-480</b> (Stefanski) Verhaltensphysiologie und Immunobiologie	● <b>4501-450</b> (Rodehuts.) Sp. Ernähr. Wiederkäuer	
	● <b>4502-430</b> (Mosenthin) Methoden zur Analytik u. Qualitätsbeurt. von Futtermitteln	● <b>7301-410</b> (Rosenkranz) Bienen		● <b>4602-490</b> (Hölzle) Spezielle Tierhygiene	
		● <b>4601-410</b> (Amselgru.) Angew. Anatomie und klinische U.-methoden			

Please check the module descriptions for how to register for participation in these modules!

## Explanation of UHOH's Module Code





## Lecture Periods at UHOH

<b>Summer Semester 2014</b>	<b>First day:</b>	In the 14 <sup>th</sup> calendar week
	<b>Last day of unblocked courses:</b>	Saturday of the 29 <sup>th</sup> calendar week
	<b>End of block 10</b>	In the 33 <sup>th</sup> calendar week
<b>Summer Semester 2015</b>	<b>First day:</b>	Monday of the 16 <sup>th</sup> calendar week
	<b>Last day of unblocked courses:</b>	Saturday of the 30 <sup>th</sup> calendar week
	<b>End of Block B4</b>	In the 32 <sup>th</sup> calendar week

### Examination periods in summer semester 2014

**B.Sc. and M.Sc. period 1:** calendar week 30 to 32

**B.Sc. and M.Sc.: period 2:** calendar week 39 to 41

**Deadline for the registration for exams:** see online-notice-board of examination office

### Examination periods in summer semester 2015

**B.Sc. and M.Sc. period 1:** calendar week 31 to 33

**B.Sc. and M.Sc.: period 2:** calendar week 39 to 41

**Deadline for the registration for exams:** see online-notice-board of examination office

A registration form for the examinations at UHOH is available at UHOH's examination office. The exact dates of the module examinations are posted on the internet at: (<https://www.uni-hohenheim.de/pruefung.html>).